

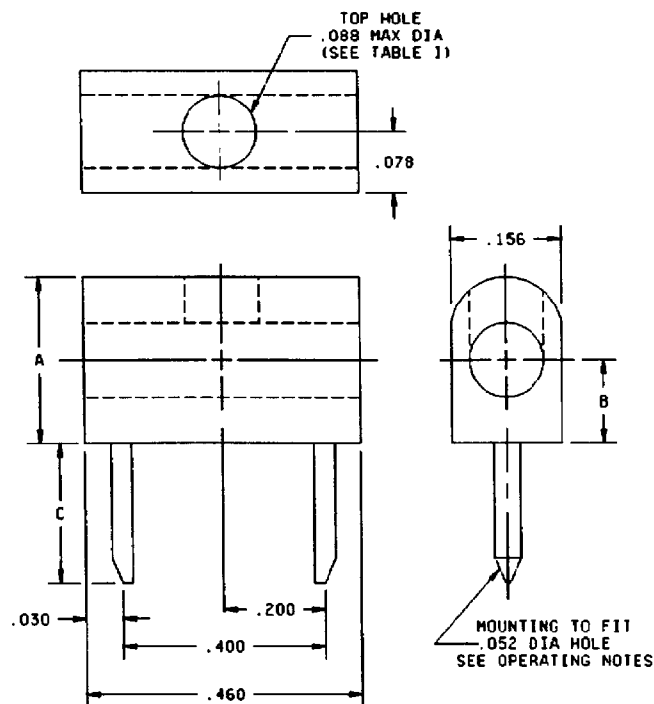
INCH-POUND
MIL-J-39024/11F
13 April 1993
SUPERSEDING
MIL-C-39024/11E
14 January 1985

MILITARY SPECIFICATION SHEET

JACK, TIP, TEST POINT TYPE, PRINTED WIRING TYPE,
SINGLE TEST POINT, RIGHT ANGLE, 2-LEG MOUNTING, LOW VOLTAGE, .080

This specification is approved for use by all Depart-
ments and Agencies of the Department of Defense

The requirements for acquiring the product described herein shall consist of this
specification sheet and the issue of the following specification listed in that
issue of the Department of Defense Index of Specifications and Standards (DODISS)
specified in the solicitation: MIL-J-39024.



NOTES:

1. Dimensions are in inches. (See table I for dimensions not shown on figure 1.)
2. Unless otherwise specified, tolerance is $\pm .010$ (0.25 mm).
3. Metric equivalents are given for general information only.
4. Terminal contour is optional provided that mounting hole and mounting center requirements are met. Also, see Terminal bendability requirements.
5. Top hole provides access to the electrical contact for a hand held probe. There is no spring contact retention.

Inches	mm	Inches	mm
.030	0.76	.156	3.96
.052	1.32	.200	5.08
.078	1.98	.400	10.16
.088	2.24	.460	11.68

FIGURE 1. Dimensions and Configuration.

TABLE I. Dash numbers and dimensions.

Dash number 2/ 3/	Dimensions (in inches 1/)			Insulation		Hole configuration
	A max.	B ±.015	C	Color	Number per FED-STD-595	
-01X 4/ -02X -03X -04X -05X -06X -07X -08X -09X -10X	.220 (5.59)	.130 (3.30)	.130 (3.30)	White Red Black Brown Green Orange Blue Yellow Gray Purple	17875 11105 17032 10075 14110 12246 15123 13655 16187 27144	Side holes only
-41X -42X -43X -44X -45X -46X -47X -48X -49X -50X	.220 (5.59)	.130 (3.30)	.130 (3.30)	White Red Black Brown Green Orange Blue Yellow Gray Purple	17875 11105 17038 10075 14110 12246 15123 13655 16187 27144	Top and side holes
-71X 5/ -72X -73X -74X -75X -76X -77X -78X -79X -80X	.220 (5.59)	.130 (3.30)	.130 (3.30)	White Red Black Brown Green Orange Blue Yellow Gray Purple	17875 11105 17038 10075 14110 12246 15123 13655 16187 27144	Side holes only

- 1/ Metric equivalents are shown in parentheses.
- 2/ Dash numbers -21 through -30 have been deleted. See table II for recommended substitute. Dash numbers -51 through -70 have been canceled without replacement.
- 3/ X = G (for parts with gold plated terminals).
X = blank for part with solder coated or tin-lead plated terminals.
- 4/ Dash numbers -01X through -10X are for use by OEM's. When a Qualified Products List source is available for dash numbers -71X through -80X, only they will be acquired by the government for stock and issue in place of dash numbers -01X through -10X, respectively.
- 5/ Clinchable terminals. See terminal bendability requirements.

MIL-J-39024/11F

REQUIREMENTS:

Design and construction:

Dimensions and configuration: See figure 1 and table I.

Insulation: Material shall be polyamide per L-P-410 or ASTM D4066.

Test probe: $.080 \pm .001$ inch (2.03 ± 0.03 mm) in diameter (connector shall accept test probe from either end).

Insulation resistance: Test circuit figure in MIL-J-39024 shall be used.

Dielectric withstanding voltage (at sea level): Test circuit figure in MIL-J-39024 shall be used.

The applicable voltage shall be applied for 15 seconds.

For -01X through -10X, 2,000 volts rms, 60 Hz; -41X through -50X, 500 volts rms, 60 Hz; -71X through -80X, 2,000 volts rms, 60 Hz.

Insertion and withdrawal forces:

Insertion force: 5.0 pounds (maximum).

Withdrawal force: 0.5 pound (minimum).

Terminal bendability: For -71X through -80X; when the part is seated on a .0625 inch (1.588 mm) nominal thickness printed wiring board there shall be no breakage or visible fracture of the terminals when they are clinched parallel to the board surface.

Identification marking:

The marking shall be located on the immediate container.

Part or Identifying Number (PIN): M39024/11- (dash number from table I) G on parts furnished to the government. The suffix "G" shall be used to identify parts with gold plated terminals. OEM's may order parts without gold plated terminals. Effective date of this revision, all parts furnished to the government for stock and issue shall have gold plated terminals. Existing government stocks of nongold terminals items shall be issued until exhausted. However, only "G" suffix items will be purchased. "G" suffix may be added to existing M39024/11-XX PIN's lacking "G" suffix. New NSN's will not be assigned.

OPERATING NOTES:

Operating voltage is 1,500 volts rms, 60 hertz at sea level; and 350 volts rms, 60 hertz at 50,000 feet.

Maximum thickness of unsupported printed wiring board on which the connector may be used is .0625 inch (1.588 mm). Maximum thickness of printed wiring board with plated through hole is .0930 inch (2.352 mm).

TABLE II. Substitution data.

Deleted dash numbers	Recommended substitute (dash numbers)
-21	-01
-22	-02
-23	-03
-24	-04
-25	-05
-26	-06
-27	-07
-28	-08
-29	-09
-30	-10

Revision letters are not used to denote changes due to the extensiveness of the changes.

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force - 85

Review activities:

Army - ME
Air Force - 11, 99
DLA - ES

User activities:

Army - AR, MI
Navy - AS, CG, MC, YD
Air Force - 19

Preparing activity:

Navy - EC

Agent:

DLA - ES

(Project 5935-3918)